

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 29 and 30 without prejudice or disclaimer, and AMEND claims 1, 4, 8, 11, 15, 18, 22, and 25 in accordance with the following:

Claim 1 (Currently Amended): A method of using a write-once disc comprising at least one recording layer, the method comprising:

allocating at least one spare area to a data area of the at least one recording layer; and
dividing the at least one spare area into a sub spare area and a temporary disc management area; and

extending the sub spare area toward a user data area of the data area if a size of the sub spare area is to be increased;

wherein the size of the temporary disc management area is greater than or equal to $1/N$ (where N is a real number) of the size of the spare area.

Claim 2 (Previously Presented): The method as claimed in claim 1, wherein the size of the temporary disc management area is less than or equal to $1/N$ of the maximum size allocable to the spare area.

Claim 3 (Previously Presented): The method as claimed in claim 1, further comprising:

extending the sub spare area so that the sum of the sizes of the extended sub spare area and the temporary disc management area is less than or equal to N times the size of the temporary disc management area.

Claim 4 (Currently Amended): The method as claimed in claim 1, further comprising:

reducing the sub spare area in a direction in which the user data is recorded if a size of the user data area is to be increased.

Claim 5 (Previously Presented): The method as claimed in claim 1, wherein each spare area is an area in which the user data is re-recorded, or updated file system information is recorded when the user data recorded in a user data area has a defect.

Claim 6 (Previously Presented): The method as claimed in claim 1, wherein the temporary disc management area is an area used to record information on temporary defect management and temporary disk management, including a temporary disc definition structure indicating defective positions.

Claim 7 (Previously Presented): The method as claimed in claim 1, wherein N is 4.

Claim 8 (Currently Amended): A data recording and/or reproducing apparatus comprising:

a recording and/or reading unit which records data on and/or reads data from a write-once disc comprising at least one recording layer; and

a controller which allocates at least one spare area to a data area of the at least one recording layer, divides the at least one spare area into a sub spare area and a temporary disc management area, and controls the recording and/or reading unit to record information on position and/or size of each spare area and information on position and/or size of the sub spare area and the temporary disc management area on the write-once disc,

wherein the size of the temporary disc management area is greater than or equal to $1/N$ of the size of one spare area, and

wherein the controller extends the sub spare area toward a user data area within the data area if a size of the sub spare area is to be increased.

Claim 9 (Previously Presented): The data recording and/or reproducing apparatus as claimed in claim 8, wherein the controller determines the size of the temporary disc management area to be less than or equal to $1/N$ of the maximum size allocable to one spare area.

Claim 10 (Previously Presented): The data recording and/or reproducing apparatus as claimed in claim 8, wherein the controller extends the sub spare area so that the sum of the sizes of the extended sub spare area and the temporary disc management area is less than or equal to N times the size of the temporary disc management area, and controls the recording and/or reading unit to record information on the size of the extended sub spare area on the write-once disc.

Claim 11 (Currently Amended): The data recording and/or reproducing apparatus as claimed in claim 8, wherein the controller reduces the sub spare area in a direction in which the user data is recorded if a size of the user data area is to be increased, and controls the recording and/or reading unit to record information on the size of the reduced sub spare area on the write-once disc.

Claim 12 (Previously Presented): The data recording and/or reproducing apparatus as claimed in claim 8, wherein each spare area is an area in which the user data is re-recorded or updated file system information is recorded when the user data recorded in a user data area has a defect.

Claim 13 (Previously Presented): The data recording and/or reproducing apparatus as claimed in claim 8, wherein the temporary disc management area is an area in which a temporary disc definition structure is recorded.

Claim 14 (Previously Presented): The data recording and/or reproducing apparatus as claimed in claim 8, wherein N is 4.

Claim 15 (Currently Amended): A single recording layer write-once disc on which user data is recorded from the inside out, comprising:
a recording layer which comprises a data area,
wherein the data area comprises a spare area which is allocated to an area ranging from a predetermined position of the data area to the last position of the data area and which is divided into a sub spare area and a temporary disc management area from the inside out, and

wherein the size of the temporary disc management area is greater than or equal to $1/N$ (N is a real number) of the size of the spare area, and
wherein the sub spare area is an area which is extended toward a user data area within the data area if a size of the sub spare area is to be increased.

Claim 16 (Previously Presented): The single recording layer write-once disc as claimed in claim 15, wherein the size of the temporary disc management area is less than or equal to $1/N$ of the maximum size allocable to the spare area.

Claim 17 (Previously Presented): The single recording layer write-once disc as claimed in claim 15, wherein the sub spare area is an area which is extended inward so that the sum of the sizes of the extended sub spare area and the temporary disc management area is less than or equal to N times the size of the temporary disc management.

Claim 18 (Currently Amended): The single recording layer write-once disc as claimed in claim 15, wherein the sub spare area is an area which is reduced outward if a size of the user data area is to be increased.

Claim 19 (Previously Presented): The single recording layer write-once disc as claimed in claim 15, wherein the spare area is an area in which the user data is re-recorded, or updated file system information is recorded when the user data recorded in a user data area has a defect.

Claim 20 (Previously Presented): The single recording layer write-once disc as claimed in claim 15, wherein the temporary disc management area is an area in which a temporary disc definition structure is recorded.

Claim 21 (Previously Presented): The single recording layer write-once disc as claimed in claim 15, wherein N is 4.

Claim 22 (Currently Amended): A dual recording layer write-once disc comprising:
a first recording layer on which user data is recorded using an opposite track path

method; and

a second recording layer which comprises a data area,
wherein an area ranging from a predetermined position of the data area to the last position of the data area is allocated as a spare area which is divided into a sub spare area and a temporary disc management area from the outside in;—and

wherein the size of the temporary disc management area is greater than or equal to $1/N$ (N is a real number) of the size of the spare area; and

wherein the sub spare area is an area which is extended toward a user data area within the data area if a size of the sub spare area is to be increased.

Claim 23 (Previously Presented): The dual recording layer write-once disc as claimed in claim 22, wherein the size of the temporary disc management area is less than or equal to $1/N$ of the maximum size allocable to the spare area.

Claim 24 (Previously Presented): The dual recording layer write-once disc as claimed in claim 22, wherein the sub spare area is an area which is extended outward so that the sum of the sizes of the extended sub spare area and the temporary disc management area is less than or equal to N times the size of the temporary disc management area.

Claim 25 (Currently Amended): The dual recording layer write-once disc as claimed in claim 22, wherein the sub spare area is an area which is reduced inward if a size of the user data area is to be increased.

Claim 26 (Previously Presented): The dual recording layer write-once disc as claimed in claim 22, wherein the spare area is an area in which the user data is re-recorded, or updated file system information is recorded when the user data recorded in a user data area has a defect.

Claim 27 (Previously Presented): The dual recording layer write-once disc as claimed in claim 22, wherein the temporary disc management area is an area in which a temporary disc definition structure is recorded.

Claim 28 (Previously Presented): The dual recording layer write-once disc as claimed in claim 22, wherein N is 4.

Claim 29 (Cancelled)

Claim 30 (Cancelled)